

IN THE CLAIMS:

Please amend the claims as follows.

Claim 1 (Currently Amended): An information recording apparatus for recording broadcasting information on a recording medium, the broadcasting information includes one or more contents, types of the contents are different from each other, and is constituted of unit information which has a predetermined amount of information and correlation information which indicates a correlation between the contents,

the apparatus comprising:

a generating device for generating a plurality of contents group information based on the correlation information, each of the contents group information including identification information for identifying a relationship between the unit information and the content and type information indicating a type of the content, the contents group information (i) being a part of management information, (ii) indicating a contents group including the contents and (iii) indicating, for a respective contents group, one or more combinations of the contents which are able to be reproduced, and

a recording device for recording the generated contents group information on the recording medium with the broadcasting information,

wherein the recording device records the management information on the recording medium separately from the broadcasting information.

Claim 2 (Original): The information recording apparatus according to claim 1, wherein the broadcasting information is broadcasted by BS digital broadcasting, and the correlation information is a descriptor broadcasted by BS digital broadcasting.

Claim 3 (Original): An information reproducing apparatus for reproducing the broadcasting information from the recording medium on which the contents group information is recorded with the broadcasting information by the information recording apparatus of claim 1 or 2,

the reproducing apparatus comprising:
a selecting device which selects a content to be reproduced before the broadcasting information is reproduced, and
a generating device which generates a display signal for displaying contents of the contents group information corresponding to the contents group including the selected content.

Claim 4 (Currently Amended): An information recording method for recording broadcasting information on a recording medium, the broadcasting information includes one or more contents, types of the contents are different from each other, and is constituted of unit information which has a predetermined amount of information and correlation information which indicates a correlation between the contents,

the method comprising:
a generating process of generating a plurality of contents group information based on the correlation information, each of the contents group information including identification information for identifying a relationship between the unit information and the content and type

information indicating a type of the content, the contents group information (i) being a part of management information, (ii) indicating a contents group including the contents and (iii) indicating, for a respective contents group, one or more combinations of the contents which are able to be reproduced, and

a recording process of recording the generated contents group information on the recording medium with the broadcasting information,

wherein the recording process records the management information on the recording medium separately from the broadcasting information.

Claim 5 (Original): The information recording method according to claim 4, wherein the broadcasting information is broadcasted by BS digital broadcasting, and the correlation information is a descriptor broadcasted by BS digital broadcasting.

Claim 6 (Original): An information reproducing method for reproducing the broadcasting information from the recording medium on which the contents group information is recorded with the broadcasting information by the information recording method of claim 4 or 5, the reproducing method comprising:

a selecting process of selecting a content to be reproduced before the broadcasting information is reproduced, and

a generating process of generating a display signal for displaying contents of the contents group information corresponding to the contents group including the selected content.

Claim 7 (Currently Amended): An information recording program for causing a recording computer to function as a generating device and a recording device, the recording computer being included in an information recording apparatus for recording broadcasting information on a recording medium, the broadcasting information includes one or more contents, types of the contents are different from each other, and is constituted of unit information which has a predetermined amount of information and correlation information which indicates a correlation between the contents,

the generating device for generating a plurality of contents group information based on the correlation information, each of the contents group information including identification information for identifying a relationship between the unit information and the content and type information indicating a type of the content, the contents group information (i) being a part of management information, (ii) indicating a contents group including the contents and (iii) indicating, for a respective contents group, one or more combinations of the contents which are able to be reproduced,

the recording device for recording the generated contents group information on the recording medium with the broadcasting information,

wherein the recording device records the management information on the recording medium separately from the broadcasting information.

Claim 8 (Original): The information recording program according to claim 7, wherein the broadcasting information is broadcasted by BS digital broadcasting, and the correlation information is a descriptor broadcasted by BS digital broadcasting.

Claim 9 (Original): An information reproducing program for causing a reproducing computer to function as a selecting device and a generating device, the reproducing computer being included in an information reproducing apparatus for reproducing broadcasting information from a recording medium on which contents group information is recorded with the broadcasting information by the information recording apparatus of claim 1 or 2,

the selecting device selecting a content to be reproduced before the broadcasting information is reproduced,

the generating device generating a display signal for displaying contents of the contents group information corresponding to a contents group including the selected content.

Claim 10 (Original): An information recording medium, wherein the information recording program of claim 7 or 8 is recorded so as to be read by a recording computer.

Claim 11 (Original): An information recording medium, wherein the information reproducing program according to claim 9 is recorded so as to be read by a reproducing computer.